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TITLE: Image processing method for
detecting human figures in a
                              digital image

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INVENTOR-INFORMATION:
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APPL-NO: 09/ 737026

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US-CL-CURRENT: 382/115, 382/118 , 382/164 ,
382/168

ABSTRACT:

   A digital image processing method for detecting
human figures in a digital
color image, comprising the steps of: providing a
digital color image having
pixels representing RGB values; segmenting the
image into non-overlapping
regions of homogeneous color or texture; detecting
candidate regions of human
skin color; detecting candidate regions of human
faces; and for each candidate
face region, constructing a human figure by
grouping regions in the vicinity of
the **face** region according to a pre-defined

graphical model of the human figure,
giving priority to human **skin** color regions.

13 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

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Abstract Text - ABTX (1):
   A digital image processing method for detecting
human figures in a digital
color image, comprising the steps of: providing a
digital color image having
pixels representing RGB values; segmenting the
image into non-overlapping
regions of homogeneous color or texture; detecting
candidate regions of human
skin color; detecting candidate regions of human
faces; and for each candidate
face region, constructing a human figure by
grouping regions in the vicinity of
the **face** region according to a pre-defined
graphical model of the human figure,
giving priority to human **skin** color regions.

Brief Summary Text - BSTX (24):
   According to the present invention, there is
provided a solution to the
problems of the prior art. The need is met
according to the present invention
by providing a digital image processing method for
detecting human figures in a
digital color image having **pixels** representing RGB
values, comprising the steps
of: segmenting the image into non-overlapping

regions of homogeneous color or
texture; detecting candidate regions of human **skin**
color; detecting candidate
regions of human **faces**; and for each candidate **face**
region, constructing a
human figure by grouping regions in the vicinity of
the **face** region according
to a predefined graphical model of the human
figure, giving priority to human
skin color regions.

Brief Summary Text - BSTX (25):
   According to a feature of the present invention,
there is provided a digital
image processing method for detecting human figures
in a digital color image
having **pixels** representing RGB values, comprising
the steps of: providing a
digital color image having **pixels** representing RGB
values; segmenting the
digital color image into non-overlapping regions of
homogeneous color or
texture; detecting candidate regions of human **skin**
color; detecting candidate
regions of human **faces**; and for each candidate **face**
region, constructing a
human figure by grouping regions in the vicinity of
the **face** region according
to a pre-defined graphical model of the human
figure, giving priority to human
skin color regions.